



Fw: PH Data question

Kristine Koch to: TARNOW.Karen, akoulermos, dawnns,
LindaSC, ljones, cstivers

06/07/2007 10:19 AM

Carl et al. Here is Gina's response.

Kristine Koch
Remedial Project Manager
USEPA, Office of Environmental Cleanup
1200 Sixth Avenue, M/S ECL-115
Seattle, WA 98101
(206)553-6705
(206)553-0124 (fax)
1-800-424-4372 extension 6705 (M-F, 8-4 Pacific Time, only)
----- Forwarded by Kristine Koch/R10/USEPA/US on 06/07/2007 10:17 AM -----



Gina
Grepo-Grove/R10/USEPA/US To: Kristine Koch/R10/USEPA/US@EPA
06/06/2007 11:55 AM cc
Subject: Re: PH Data question

Hi, Kristine,

(b) (6) These are my answers to your questions:

- (1) Lab QA/QC is required. Half of the volume could be used for QA/QC samples (MS, MSD & duplicates).
- (2) using half of volume for sample analyses is OK if the MRLs though doubled will still meet target DLs for the project.

Just holler if you have more questions.

Ginna Grepo-Grove
(206) 553-1632
Grepo-Grove.Gina@EPA.GOV
Kristine Koch/R10/USEPA/US



Kristine Koch/R10/USEPA/US To: Gina Grepo-Grove/R10/USEPA/US@EPA
06/04/2007 12:08 PM cc
Subject: PH Data question

Gina - LWG has gathered stormwater samples and has found that for the solids (see attached spreadsheet, 3rd tab) there is not enough sample to analyze for all contaminants. The first question they would like answered is whether it is necessary to have field/lab QA/QC or can this sample be used for additional analysis and the second question they have is if it is ok to use half the volume and double the detection limits. I have my own personal opinion on this, but I wanted to see what you have to say. A response by Wednesday would be great since they are preparing the samples for analysis (expected to

be this Friday). I'm around if you'd like to discuss.

Thanks.

Kristine Koch
Remedial Project Manager
USEPA, Office of Environmental Cleanup
1200 Sixth Avenue, M/S ECL-115
Seattle, WA 98101
(206)553-6705
(206)553-0124 (fax)
1-800-424-4372 extension 6705 (M-F, 8-4 Pacific Time, only)

----- Forwarded by Kristine Koch/R10/USEPA/US on 06/04/2007 12:00 PM -----



"Carl Stivers"
<cstivers@anchorenv.com>
06/01/2007 09:49 AM

To Kristine Koch/R10/USEPA/US@EPA, "Dawn Sanders"
<DAWNS@BES.CI.PORTLAND.OR.US>, "Andy Koulermos"
<akoulermos@newfields.com>, "Amanda Spencer"
<aspencer@ashcreekassociates.com>, "Scheffler, Linda"
<LindaSC@BES.CI.PORTLAND.OR.US>, "Laura Jones"
<ljones@integral-corp.com>, "TARNOW Karen E"
<TARNOW.Karen@deq.state.or.us>
cc "Amanda Shellenberger" <ashellenberger@anchorenv.com>,
"Jim McKenna" <jim.mckenna@portofportland.com>, "Rick
Applegate" <RICKA@BES.CI.PORTLAND.OR.US>,
<rjw@nwnatural.com>, "Valerie Oster"
<voster@anchorenv.com>
Subject SW Tech Team Reminder

Stormwater Technical Team –

Just a reminder that we are having a call on Monday June 4 starting at 11 am. Call in number is:

Non-Responsive

As requested during the last call, attached is a matrix estimating the completeness of our sampling program to date. Per last meeting, we would like to spend a good chunk of time discussing the group's view of this sample set as it relates to the original objectives set forth in the Stormwater FSP Rationale which are stated below (with some text explanation of how the data will be used excerpted).

- **Stormwater contribution to fish tissue burdens:** "Thus, it is necessary to determine the relative contribution of stormwater (as compared to other sources) to surface water concentrations of selected chemicals in the harbor. For stormwater, this would be done in terms of loading estimates."
- **Stormwater contribution to recontamination potential:** "To predict whether sediments would recontaminate at levels above the PRGs that will eventually be set for the Site, estimates of stormwater loads are needed for input into estimation tools and models described in Section 1.3; these load estimates must be on a spatial scale consistent with those estimation tools and models."

The load estimates should be accompanied by partitioning measurements to assist in the estimation of chemical mass associated with particulates (that may settle to the sediment bed) versus dissolved mass.”

We should also cover the action items discussed in the last call:

- Sediment trap sampling at WR-22 OSM was conducted (the sample available appears to be a little more than estimated previously)
- Archival of other existing bottles from any sediment trap with more than trace amounts
- Schedule and budget implications of extended spring stormwater sampling program
- Additional potential modifications to sediment traps
 - Lower traps at Siltronics
 - Propose sampling Arkema catchbasin sediments
- Proposed efficient batching for issuance of validated data to interested parties. All dates are subject to laboratories meeting deadlines, which they don't sometimes! Also, note that we typically do not release data in this manner to government team, so we are seeking approval from LWG to release data approximately on these dates.
 - Stormwater Group 1 – Data from the March 26, April 9, and April 18 stormwater sampling events – mid-June
 - Stormwater Group 2 – Data from the April 23rd and May 3rd sampling events - mid-August
 - Stormwater/Sediment Group 3 – Grab samples from May 21st event, any subsequent stormwater events, and sediment trap samples – Late September or mid-October.

Thanks. Talk to you all at the call.

<<Stormwater Matrix for Stormwater Tech Group_LJ_5312007CES.xls>>

Carl

Carl Stivers

Anchor Environmental, L.L.C.
23 South Wenatchee Avenue, Suite 120
Wenatchee, WA 98801
Phone: 509-888-2070
Fax: 509-888-2211

cstivers@anchorenv.com

This electronic message transmission contains information that is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 287-9130,

or by electronic mail, cstivers@anchorenv.com.

From: Carl Stivers

Sent: Friday, May 25, 2007 9:26 AM

To: 'Koch.Kristine@epamail.epa.gov'; 'Dawn Sanders'; 'Andy Koulermos'; 'Amanda Spencer'; 'Scheffler, Linda'; 'Laura Jones'; 'TARNOW Karen E'

Cc: Amanda Shellenberger; 'Jim McKenna'; 'Rick Applegate'; 'rjw@nwnatural.com'; Valerie Oster

Subject: Potential Sediment Trap Modifications

<< File: Sediment Traps with Modification NotesAG5.23.xls >> SW Tech Team –

One action item from our last call was for Anchor to review each sediment trap installation and look for any other modifications that might help with sediment collection. Attached is a spreadsheet that updates the status of each trap and a final column that discusses modification issues. Our two clear recommendations are highlighted in pink in this column, which are:

- Reset the traps at Siltronics lower to hopefully have them underwater 100% of the time. Right now they are probably underwater 90% of the time.
- Collect sediments from around the traps at Arkema.

I know we have discussed this last potentiality and decided against it quite a few times. However, given the availability of the sediments and complete lack of sediments in the traps, this seems like a prudent step, so that we can at least qualitatively evaluate what is potentially present in this system. I think a highly qualified data point is probably preferable to no data point here. Also, we can decide how to use or not use the information after the fact.

Please reply to all if you have objections to the above two actions, and/or have additional actions to propose. Thanks.

Carl

Carl Stivers

Anchor Environmental, L.L.C.

23 South Wenatchee Avenue, Suite 120

Wenatchee, WA 98801

Phone: 509-888-2070

Fax: 509-888-2211

cstivers@anchorenv.com

This electronic message transmission contains information that is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 287-9130, or by electronic mail, cstivers@anchorenv.com.

From: Carl Stivers

Sent: Friday, May 18, 2007 2:29 PM

To: 'Koch.Kristine@epamail.epa.gov'; 'Dawn Sanders'; 'Andy Koulermos'; 'Amanda Spencer'; 'Scheffler, Linda'; 'Laura Jones'; 'TARNOW Karen E'

Cc: Amanda Shellenberger; 'Jim McKenna'; 'Rick Applegate'; 'rjw@nwnatural.com'; Valerie Oster
Subject: Notes from May 18 call and June 4 Stormwater Technical Team Conf. Call Non-Responsive
Non-Responsive

Stormwater Technical Team -

Here are the highlights from today's conference call. Let me know if I missed anything critical. It was agreed to have the next call at 11 am June 4. Same number (see subject line).

Other meeting action items/decisions were:

- Sample sediment traps that have 100% or more the required volume when they meet their 3 month anniversary dates. This includes
 - o WR-22(OSM) - Sample May 22
 - o OF-M1 - Sample June 8
 - o OF-M2 - Sample June 8
- Remove existing bottles from any sediment trap with more than trace amounts of sediment, replace with clean bottles, and sample and archive available sediments. This will most probably be conducted next week.
- Extend the sediment trap sampling period through the end of June and continue to look for stormwater events in this period. Access agreements at all sites allow for access through this period.
- LWG to discuss internally the value of conducting high volume sampling for sediments at some sites or other extraordinary measures now versus utilizing that budget for gap sampling in the fall. This is contingent upon impacts to schedule of any fall activities, which needs to first be determined.
- LWG consultants to review each sediment trap site again to see if there any additional modifications that can be used to maximize sediment collection at any of the lagging sites.
- LWG Consultants to review all the samples collected to date to understand better what the likely data gaps from the originally envisioned program could be.
- LWG consultants will review sampling events and propose an efficient batching for issuance of validated data to interested parties in stages (rather than waiting to the end of all sample collection).
- These last four items will be discussed at the next meeting. The data gaps analysis will be used by the Stormwater Technical Team to start to develop an opinion on the adequacy of the likely data set for meeting objectives set forth in the FSP.

Thanks.

Carl

Carl Stivers

Anchor Environmental, L.L.C.

23 South Wenatchee Avenue, Suite 120

Wenatchee, WA 98801

Phone: 509-888-2070

Fax: 509-888-2211

cstivers@anchorenv.com

This electronic message transmission contains information that is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 287-9130, or by electronic mail, cstivers@anchorenv.com.

-----Original Message-----

From: Carl Stivers

Sent: Friday, May 18, 2007 12:55 PM

To: Carl Stivers; Koch.Kristine@epamail.epa.gov; Dawn Sanders; Andy Koulermos; Amanda Spencer; Scheffler, Linda; Laura Jones; TARNOW Karen E

Cc: Amanda Shellenberger; Jim McKenna; Rick Applegate; rjw@nwnatural.com;

Valerie Oster

Subject: RE: Stormwater Technical Team Conf. Non-Responsive

Stormwater Tech Team -

I looked back at our last call date and realized the stormwater sample matrix has been updated since then. I have attached the long version (which you've seen before) and a summary version, which helps me see the whole picture in one page. FYI.

Carl

Carl Stivers

Anchor Environmental, L.L.C.

23 South Wenatchee Avenue, Suite 120

Wenatchee, WA 98801

Phone: 509-888-2070

Fax: 509-888-2211

cstivers@anchorenv.com

This electronic message transmission contains information that is intended for the use of the individual or entity named above. If you are not the intended

recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 287-9130, or by electronic mail, cstivers@anchorenv.com.

-----Original Message-----

From: Carl Stivers

Sent: Thursday, May 17, 2007 3:47 PM

To: 'Koch.Kristine@epamail.epa.gov'; Dawn Sanders; Andy Koulermos; Amanda Spencer; Scheffler, Linda; Laura Jones; TARNOW Karen E

Cc: Amanda Shellenberger; Jim McKenna; Rick Applegate; rjw@nwnatural.com; Valerie Oster

Subject: RE: Stormwater Technical Team Conf. Non-Responsive

Stormwater Tech Team -

Please see the attached status table on sediment traps for discussion during our conf. call tomorrow at 1 pm.

It continues to be dry, so there is no update to the stormwater collection. It's the same as last time.

Thanks.

Carl

Carl Stivers

Anchor Environmental, L.L.C.

23 South Wenatchee Avenue, Suite 120

Wenatchee, WA 98801

Phone: 509-888-2070

Fax: 509-888-2211

cstivers@anchorenv.com

This electronic message transmission contains information that is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 287-9130, or by electronic mail, cstivers@anchorenv.com.



Stormwater Matrix for Stormwater Tech Group_LJ_5312007CES.xls